

# Hexadecane, 8-methyl

<b>Other names:</b>	8-methylhexadecane
<b>Inchi:</b>	InChI=1S/C17H36/c1-4-6-8-10-12-14-16-17(3)15-13-11-9-7-5-2/h17H,4-16H2,1-3H3
<b>InchiKey:</b>	VEXDRBIOUOQWQC-UHFFFAOYSA-N
<b>Formula:</b>	C17H36
<b>SMILES:</b>	CCCCCCCC(C)CCCCCCC
<b>Mol. weight [g/mol]:</b>	240.47

## Physical Properties

Property code	Value	Unit	Source
gf	89.82	kJ/mol	Joback Method
hf	-399.49	kJ/mol	Joback Method
hfus	36.26	kJ/mol	Joback Method
hvap	53.05	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.734		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1238.09	kPa	Joback Method
rinpol	1643.00		NIST Webbook
rinpol	1643.00		NIST Webbook
rinpol	1647.00		NIST Webbook
rinpol	1640.00		NIST Webbook
tb	587.92	K	Joback Method
tc	748.86	K	Joback Method
tf	266.35	K	Joback Method
vc	0.982	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.18	J/molxK	587.92	Joback Method
cpg	687.14	J/molxK	614.74	Joback Method
cpg	706.30	J/molxK	641.57	Joback Method
cpg	724.69	J/molxK	668.39	Joback Method
cpg	742.33	J/molxK	695.21	Joback Method

cpg	759.24	J/molxK	722.04	Joback Method
cpg	775.45	J/molxK	748.86	Joback Method
dvisc	0.0070198	Paxs	266.35	Joback Method
dvisc	0.0020606	Paxs	319.94	Joback Method
dvisc	0.0008598	Paxs	373.54	Joback Method
dvisc	0.0004468	Paxs	427.13	Joback Method
dvisc	0.0002686	Paxs	480.73	Joback Method
dvisc	0.0001789	Paxs	534.33	Joback Method
dvisc	0.0001283	Paxs	587.92	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R9306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R9306&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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